

Abstract of the Disclosure

A method to expand a RAID subsystem from a first array of disk drives to a second array of disk drives. The first array includes a set of data disk drives storing old data and spare space, and the second array includes the first array and at least one new disk drive. First, the old data are distributed among the set of data disk drives and at least one new disk drive while, at the same time, new data are mapped to the spare space. Upon completion of the distribution, the new data are copied from the spare space to the set of data disk drives and at least one new disk drive to enable concurrent expansion of the first array while accessing the old and the new data.